

SmartDrive with PushTracker at your choice

Seamless power
assist experience



permobil

There are parts of life that I scaled down because they demanded too much energy, parts that I realize that I can actually do again with the help of SmartDrive.

— Thomas Fogdö
SmartDrive user



Energy to do more

SmartDrive empowers your active lifestyle. It supplements the energy that you would normally have to use. With one button, tap or gesture get the extra boost when and where you need it.



SmartDrive attaches quickly and easily to a wide variety of manual wheelchairs with an ergonomic handle design which makes it easier to grip.

5.7 kgs — Lightest rear power assist in the world. Its compact size does not affect the footprint of the wheelchair.

OmniWheel design allows SmartDrive to start from any position maintaining optimal traction and maneuverability.

SmartDrive

On-Demand Power Assist

Pushing a manual wheelchair can put stress on shoulders and lead to serious issues in the future. SmartDrive is a lightweight power assist for manual wheelchairs that helps users to go up hills and ramps, and cover extended distances without having to push. It offers a range of controls and activity-tracking technology to deliver a seamless power assist experience that may reduce repetitive stress*.

Paired with the PushTracker at your choice and SwitchControl, SmartDrive offers added flexibility, convenience and control options to empower your active lifestyle.

Thanks to your feedback,
we've improved wireless updates
and overall performance

Touch screen technology
makes the PushTracker more
accessible than ever

With a simple touch of a button,
SwitchControl gets your SmartDrive
moving quickly and easily

8x more reliable
Bluetooth® connection

PushTracker E2 Basic

Developed with connectivity in mind, the PushTracker E2 Basic has been rigorously tested and proven to be consistently reliable and extremely durable. The PushTracker E2 Basic makes using your SmartDrive easier than ever.

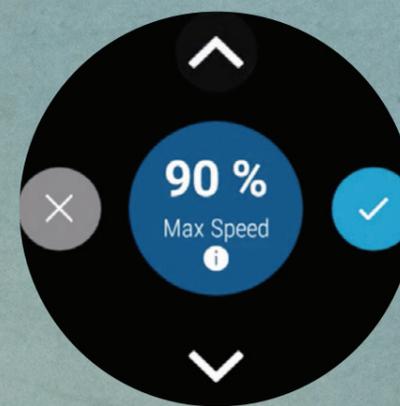
With gesture-activated controls and activity-tracking technology you can start your SmartDrive with a simple tap of your hand—no pushing or reaching necessary.

Get set up and rolling in just minutes with preinstalled apps and no Wi-Fi or phone required.

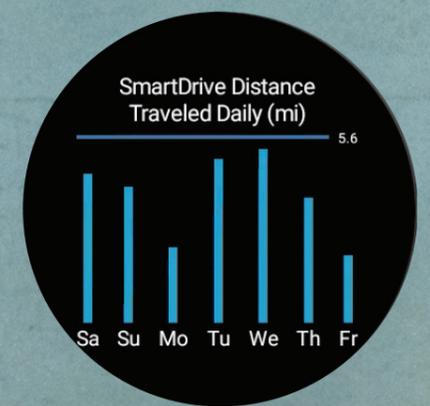
Quickly change all
performance settings



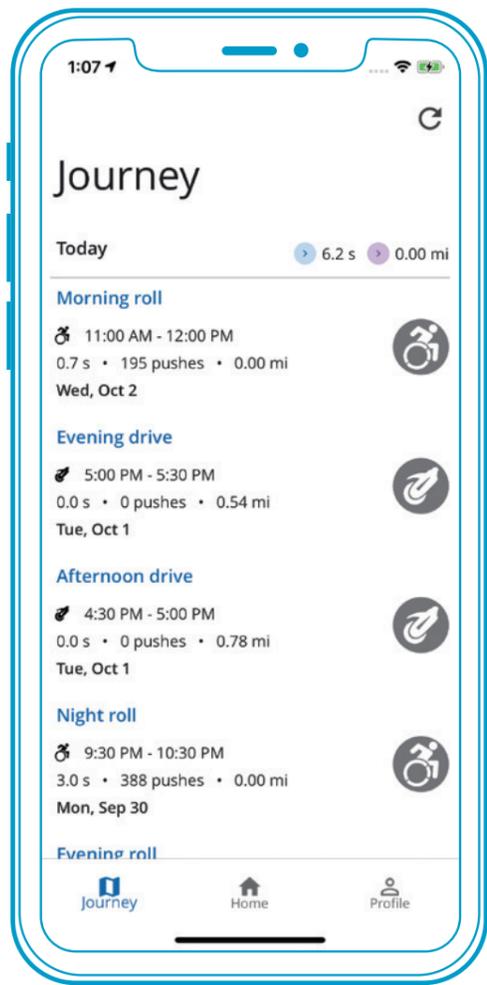
Turn power assist on and off



Easily change speed settings



Review system usage



Used with the Switch Control and the full SmartWatch PushTracker E2.

PushTracker App

SmartDrive advances daily mobility for the manual wheelchair user. The PushTracker app produces and delivers activity statistics designed to promote optimal mobility for the manual wheelchair user. Track distance, pushes and coast time in order to increase coast time and decrease pushes with remaining or increased distance.



SwitchControl

SwitchControl gives users another programmable option for controlling their SmartDrive. With the push of a button SmartDrive can be engaged for a momentary burst of power or activated in latched mode for consistent power over extended distances. This empowers a more diverse group of people to experience SmartDrive with increased confidence. It also works as a shut off switch while the motor is running. When touched, the motor will disengage and the user stops by grabbing the wheels.



Power your push, your way

SmartDrive gives manual wheelchair users more control over their power-assist experience than ever before. See below how our variety of new/updated control solutions can meet the individual needs of users and support their mobility goals.

Ready to go PushTracker E2
Touchscreen control of your SmartDrive and settings

SwitchControl
Wired buttons with additional control options for your SmartDrive

SmartDrive MX2 +

Powers you up hills and ramps, over thick carpet, and long distances.

| | Stamina | Performance | Performance Pro | Expert |
|------------------------------|---|---|----------------------|---|
| | | PushTracker | PushTracker E2 Basic | PushTracker E2 |
| Recommended Products | | | | |
| PushTracker Smart Phone App | ● | ● | | ● |
| Activity trainer | | ● | ● | ● |
| On-demand power assist | ● | ● | ● | ● |
| Energy/shoulder preservation | ● | ● | ● | ● |
| Easy on/off buttons | ● | ● | ● | ● |
| Hand gesture activation | | ● | ● | ● |
| Smart device integration | | | | ● |
| Software update | <p>PushTracker Mobile app updates available in App Store and Google Play.</p> <p>SmartDrive updates via PushTracker Mobile app.</p> | <p>PushTracker Mobile app updates available in App Store and Google Play.</p> <p>PushTracker and SmartDrive updates via PushTracker Mobile app.</p> | | <p>PushTracker Mobile app updates available in App Store and Google Play.</p> <p>PushTracker E2, PushTracker and SmartDrive MX2 updates with Google account and WiFi.</p> <p>SmartDrive can be updates via SmartDrive MX2 App</p> |

PushTracker PushTracker E2 + E2 basic PushTracker App SmartDrive SwitchControl

* ** Sawatzky, B., Mortenson, W. B., & Wong, S. (2017). Learning to use a rear-mounted power assist for manual wheelchairs. *Disabil Rehabil Assist Technol*, 1-5.

Kloosterman, M. G., Eising, H., Schaake, L., Buurke, J. H., & Rietman, J. S. (2012). Comparison of shoulder load during power-assisted and purely hand-rim wheelchair propulsion. *Clin Biomech (Bristol, Avon)*, 27(5), 428-435.

Nash, M. S., Koppens, D., van Haaren, M., Sherman, A. L., Lippiatt, J. P., & Lewis, J. E. (2008). Power-Assisted Wheels Ease Energy Costs and Perceptual Responses to Wheelchair Propulsion in Persons With Shoulder Pain and Spinal Cord Injury. *Archives of Physical Medicine and Rehabilitation*, 89(11), 2080-2085.



SmartDrive Specifications

| | |
|--------------------------|---|
| Dimensions | Length: 389 mm Width: 141 mm Height: 242 mm |
| Product weight | 5.7 kg Drive Unit |
| User weight | 14 to 150 kg |
| Driving range* | Up to 19.8 km Level/No Resistance |
| Motor power | 250 W Brushless DC |
| Maximum speed | 6 km/h |
| Operating temp | -25°C to 50°C |
| Chair type compatibility | Rigid, Folding, Tilt-In Space, One-Arm Drive and others |
| Drive wheel diameter | 501, 540, 559, 590 mm |
| Warranty | 2-Year Limited Warranty |
| Bluetooth LE | FCC ID QOQBT113 IC ID 5123A-BGTBLE113 |
| Local reimbursement | Code |

*Performance measurements will vary based on user and chair characteristics, driving and battery conditions.

The SmartDrive has been tested and conforms to all applicable requirements of ANSI/RESNA Standards for Wheelchairs - Volume 1 and Volume 2 and EN 12184.

NOTE: A wheelchair's specifications provided by its manufacturer may be slightly affected by the addition of the SmartDrive.

Please refer to your owner's manual for more detailed operation and care instructions.

PushTracker E2 + E2 Basic Specifications

| | |
|---------------------------|--|
| Dimensions | 46.9 x 52.2 x 12.9 mm |
| Operating system | Wear OS by Google™ |
| Phone compatibility | Android™, iPhone™ |
| Nominal operating voltage | 3.9 V |
| Electric charge | 415 mA-h |
| Wireless operating band | Bluetooth / BLE 2.4 GHz (2.402 to 2.480 GHz) WiFi 802.11 b/g/n 2.4 GHz (2.412 to 2.472 GHz) GPS / GLONASS / Beidou 1575 MHz (1.559 to 1.610 GHz) |
| Bluetooth LE | FCC ID 2AP42-WG12026 IC ID 24006-WG12026 |
| Water resistance | 5 ATM (Swim-ready, up to 50 m) |
| Band width | 22 mm |
| Band material | Silicone (interchangeable) - Latex-Free and completely Biocompatible |
| Case material | Polycarbonate |
| Display | AMOLED (400 x 400 pixel) |

All figures shown are for illustration purposes only and actual products may vary. Wear OS by Google, iPhone, Android, Bluetooth and Google Play are trademarks or registered trademarks of their respective owners.